

Title (en)

A HEAT PUMP AND HOUSING FOR A HEAT PUMP

Title (de)

WÄRMEPUMPE UND GEHÄUSE FÜR EINE WÄRMEPUMPE

Title (fr)

POMPE À CHALEUR ET BOÎTIER POUR POMPE À CHALEUR

Publication

EP 4007875 A1 20220608 (EN)

Application

EP 20761151 A 20200802

Priority

- GB 201911108 A 20190802
- EP 2020071752 W 20200802

Abstract (en)

[origin: WO2021023686A1] The invention provides a heat pump system comprising a base support; a top support and one or more elongated support structures connected to the base support and the top support. A hydraulic system configured to provide a compression stress to at least one SMA or NTE or elastocaloric core during use. An inlet for receiving fluid and an outlet for exiting the fluid; and at least one valve configured to control the inlet and the outlet. The elongated support is configured to engage with the SMA core to prevent the SMA material buckling when a compression stress is applied.

IPC 8 full level

F25B 23/00 (2006.01); **F25B 30/00** (2006.01)

CPC (source: EP GB US)

F16M 1/04 (2013.01 - US); **F25B 23/00** (2013.01 - EP GB); **F25B 30/00** (2013.01 - EP); **F25D 19/00** (2013.01 - US)

Citation (search report)

See references of WO 2021023686A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2021023686 A1 20210211; EP 4007875 A1 20220608; GB 201911108 D0 20190918; GB 2586445 A 20210224; JP 2022547654 A 20221115; US 2022357095 A1 20221110

DOCDB simple family (application)

EP 2020071752 W 20200802; EP 20761151 A 20200802; GB 201911108 A 20190802; JP 2022506736 A 20200802; US 202017632384 A 20200802